

TORNOS



SAY HELLO TO THE
New SwissNano 10

THE PERFECT 10

Take your part production the next level with the new SwissNano 10

Geared for micro production

Double your productivity per square meter

- The SwissNano has the smallest footprint on the market, consuming the same space as a cam machine.

Benefit from lightning-fast setup

- The operator benefits from 180-degree access to the machine, so settings can be adjusted or changed in a flash.
- Make fine tooling adjustments in a snap with the operator facing the guide bush.

Save costs thanks to the smartest machine on the market

- Immediately benefit from improved surface finishes and longer tool life with the SwissNano's vibration-reducing design.
- Get positioned to potentially double your output with the same power consumption costs. This machine has an extremely low 6 kVA power consumption that is significantly less than other machines on the market.
- Waste less material and produce more parts per bar. Some machines leave 300 mm bar remnants, but the SwissNano reduces remnants to a minimum.

Master the tightest process capability parameters

- Easily achieve tolerances as tight as ± 0.001 mm, even with strict process capability parameters.
- Experience ultimate stability: With just a 10-minute warm-up, the SwissNano delivers consistently perfect parts, thanks to its smart thermal management, stability and its rigid base.

Benefit from the most versatile kinematics on the market

- Available in numerous configurations and capable of machining with or without a guide bush, the SwissNano 10 transcends turning to also perform milling, gear hobbing, and polygon operations

Benefit from a high-pressure-ready machine, and defeat the most difficult challenges with the smallest machine on the market. In addition, a chip conveyor can be installed as an option.

Up to 40% more productivity

Achieve higher productivity with the brand new SwissNano 10

- Profit from up to 40% more productivity thanks to our Turbo mode*.

6 linear axes

2 C axes

10 mm maximum bar diameter

Maximum number of tools: 20

Maximum number of rotating tools: 5

Increase your parts portfolio with up to 2 rotating tools in back operation!

Improve and secure autonomy with Tornos' Active Chip Breaker Plus (ACB Plus) software.

- Improve the security and autonomy of your processes.

Chips without ACB Plus

Chips with ACB Plus

* Valid on certain machining operations such as synchronization and approach of spindle and counter spindle and synchronization of the cut-off and feed

TECHNICAL SPECIFICATIONS

SwissNano 10

Main spindle (Z1/S1/C1)

Max. bar capacity	mm	10
Workpiece length	mm	100
Spindle rotation speed	rpm	15,000
Spindle power (S1/S6)	kW	1.9/2.9

Main gang (X1/Y1/S11)

Number of tool positions on guide bush (option)		7+3
Turning tool section (option)		8x8
Positions for radial rotating tools (option)		3
Max rotating tool speed	rpm	10,000
Rotating tool power	kW	0,5
Steel drilling/rotating tool capacity		Ø 6, f=0.2 mm/rev
Rotating tool/steel tapping capacity		M5x15; M6x5

End attachment and counter spindle (X4/Y4/Z4/S4)

Number of tool positions		4 x Ø 16
Max counter spindle capacity	mm	10
Insertion length of workpiece into counter spindle	mm	90
Counter spindle rotation speed	rpm	15,000
Counter spindle power (S1/S6)	kW	0.95/1.2
Steel drilling/rotating tool capacity		Ø 2.5, f=0.15 mm/rev
Rotating tool/steel tapping capacity		M3x5

Counter-operation

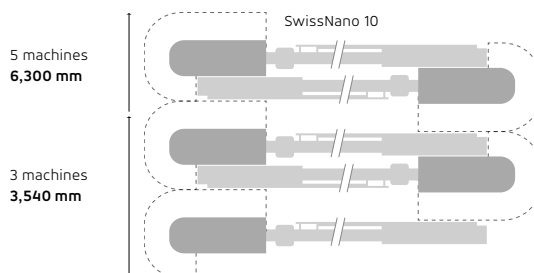
Number of standard tool positions		4 x Ø 16
Positions for rotating tools		2
Max rotating tool speed	rpm	10,000

Basic machine equipment

CNC type		FANUC Oi TF Plus
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General specifications

Dimensions (length x width x height)	mm	1,880 x 780 x 1,670
Weight	kg	1,000



Tornos
throughout
the world



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